# 6 x 9 DATA SHEETS.

to any ending in tables, data or other information that shall be accepted for one of these data sheets.

These data sheets are intended to be cut into four sections, 6 x 9 inches in size, as indicated by the straight lines. They may then be bound into note book form for convenient reference by means of staples inserted in holes punched at the points indicated. Suitable binders for these data sheets will be supplied for 50 cents each.

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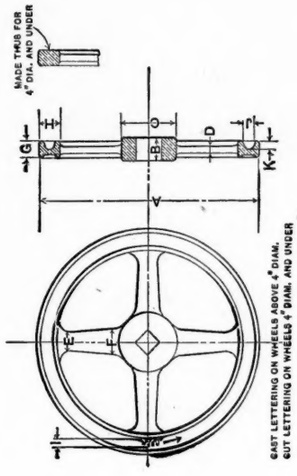
## DIMENSIONS FOR BRASS HAND WHEELS (UNITED STATES NAVY STANDARD).




| Dia. of Wheel. A | HUB. Thick. B | HUB. Dia. C | ARMS. Thich. D | ARMS. Width. E | ARMS. Width. F | ARMS. Number | RIM. Width. G | RIM. Depth. H | RIM. Groove. Width. J | RIM. Groove. Depth. K | Size of Letter. I |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 1/2" | 5/16" | 9/16" | 1/8" | 3/16" | 1/4" | 4 | 1/4" | 1/4" | 0 | 0 | 5/32" |
| 2 | 7/16 | 5/8 | 1/8 | 1/4 | 5/16 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 2 1/2 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 3 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 3 1/2 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 4 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 4 1/2 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 5 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 6 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 7 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 8 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 9 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 4 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 10 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 5 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 11 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 5 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 12 | 1/2 | 3/4 | 1/8 | 1/4 | 3/8 | 5 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 14 | 5/8 | 1 1/16 | 1/8 | 1/4 | 3/8 | 5 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 16 | 5/8 | 1 1/16 | 1/8 | 1/4 | 3/8 | 6 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 18 | 5/8 | 1 1/16 | 1/8 | 1/4 | 3/8 | 6 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 21 | 5/8 | 1 1/16 | 1/8 | 1/4 | 3/8 | 6 | 1/4 | 1/4 | 0 | 0 | 5/32 |
| 24 | 5/8 | 1 1/16 | 1/8 | 1/4 | 3/8 | 6 | 1/4 | 1/4 | 0 | 0 | 5/32 |

Contributed by F. W. Armes, Bath, Me.



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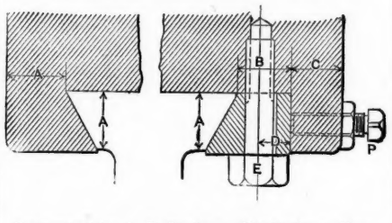
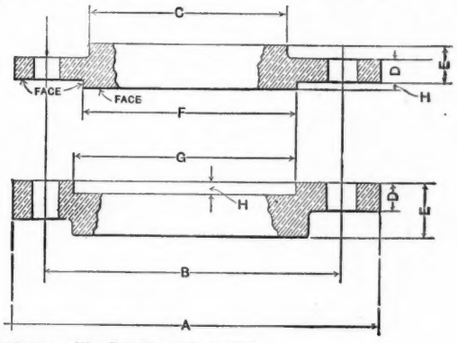
## STANDARD V-STRIPS.




Computed by A. E. Ingham, Altrincham, Eng.

| A | B | C | D | E | P |
|---|---|---|---|---|---|
| 1/4 | 5/16 | 1/4 | 3/16 | 3/16 | 1/8 |
| 3/8 | 7/16 | 5/16 | 9/32 | 1/4 | 3/16 |
| 1/2 | 9/16 | 3/8 | 3/8 | 5/16 | 1/4 |
| 5/8 | 5/8 | 7/16 | 7/16 | 5/16 | 1/4 |
| 3/4 | 3/4 | 9/16 | 1/2 | 3/8 | 5/16 |
| 7/8 | 7/8 | 11/16 | 9/16 | 1/2 | 5/16 |
| 1 | 1 | 3/4 | 5/8 | 1/2 | 3/8 |
| 1 1/4 | 1 1/8 | 1 | 3/4 | 5/8 | 3/8 |
| 1 1/2 | 1 3/8 | 1 1/8 | 7/8 | 3/4 | 1/2 |
| 1 3/4 | 1 1/2 | 1 1/4 | 1 | 3/4 | 5/8 |
| 2 | 1 3/4 | 1 1/2 | 1 1/8 | 7/8 | 3/4 |
| 2 1/2 | 2 | 1 5/8 | 1 3/8 | 7/8 | 3/4 |
| 2 1/2 | 2 1/8 | 1 3/4 | 1 1/2 | 1 | 3/4 |
| 3 | 2 1/2 | 2 | 1 7/8 | 1 | 7/8 |

## STANDARD MALE AND FEMALE BRASS FLANGES FOR 250 POUNDS PRESSURE.




Computed by A. de Bretteville, San Francisco, Cal.

| Size of Pipe. | A | B | C | D | E | F | G | H | No. of Bolts. | Size of Bolts. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4 | 2 7/8 | 1 3/4 | 1/2 | 9/16 | 2 | 2 1/32 | 1/8 | 4 | 1/2 |
| 1 1/4 | 4 1/2 | 3 1/4 | 2 1/8 | 1/2 | 5/8 | 2 1/4 | 2 9/32 | 1/8 | 4 | 1/2 |
| 1 1/2 | 5 | 3 5/8 | 2 1/4 | 1/2 | 3/4 | 2 5/8 | 2 23/32 | 1/8 | 4 | 5/8 |
| 2 | 6 | 4 1/2 | 2 7/8 | 1/2 | 7/8 | 3 1/4 | 3 9/32 | 1/8 | 5 | 5/8 |
| 2 1/2 | 7 | 5 1/2 | 3 5/8 | 9/16 | 1 | 4 | 4 1/32 | 1/8 | 6 | 5/8 |
| 3 | 7 1/2 | 6 | 4 1/2 | 5/8 | 1 1/8 | 4 1/2 | 4 17/32 | 1/8 | 6 | 3/4 |
| 3 1/2 | 8 1/2 | 6 3/4 | 4 7/8 | 11/16 | 1 1/8 | 5 1/4 | 5 9/32 | 1/8 | 6 | 3/4 |
| 4 | 9 | 7 1/4 | 5 3/8 | 11/16 | 1 1/4 | 5 3/4 | 5 25/32 | 1/8 | 6 | 3/4 |
| 4 1/2 | 9 1/2 | 7 3/4 | 6 | 11/16 | 1 1/4 | 6 1/4 | 6 9/32 | 1/8 | 8 | 3/4 |
| 5 | 10 | 8 1/2 | 6 3/8 | 3/4 | 1 3/8 | 6 3/4 | 6 25/32 | 1/8 | 8 | 3/4 |
| 6 | 11 | 9 1/2 | 7 1/2 | 3/4 | 1 3/8 | 7 3/4 | 7 25/32 | 1/8 | 8 | 3/4 |
| 7 | 12 1/2 | 10 3/4 | 9 | 13/16 | 1 3/8 | 9 | 9 1/32 | 1/8 | 8 | 3/4 |
| 8 | 13 1/2 | 11 3/4 | 10 | 7/8 | 1 3/8 | 10 | 10 1/32 | 1/8 | 8 | 3/4 |
| 9 | 15 | 13 1/4 | 11 1/2 | 15/16 | 1 5/8 | 11 1/4 | 11 9/32 | 1/8 | 12 | 3/4 |
| 10 | 16 | 14 1/4 | 12 1/2 | 15/16 | 1 7/8 | 12 1/4 | 12 9/32 | 1/8 | 12 | 3/4 |
| 12 | 19 | 17 | 14 3/4 | 1 1/16 | 1 7/8 | 14 1/2 | 14 17/32 | 1/8 | 12 | 3/4 |